130

price $6.00

SERVICE MANUAL
stereo turntables
(FOR USE WITH PS17-PS87 MANUAL)

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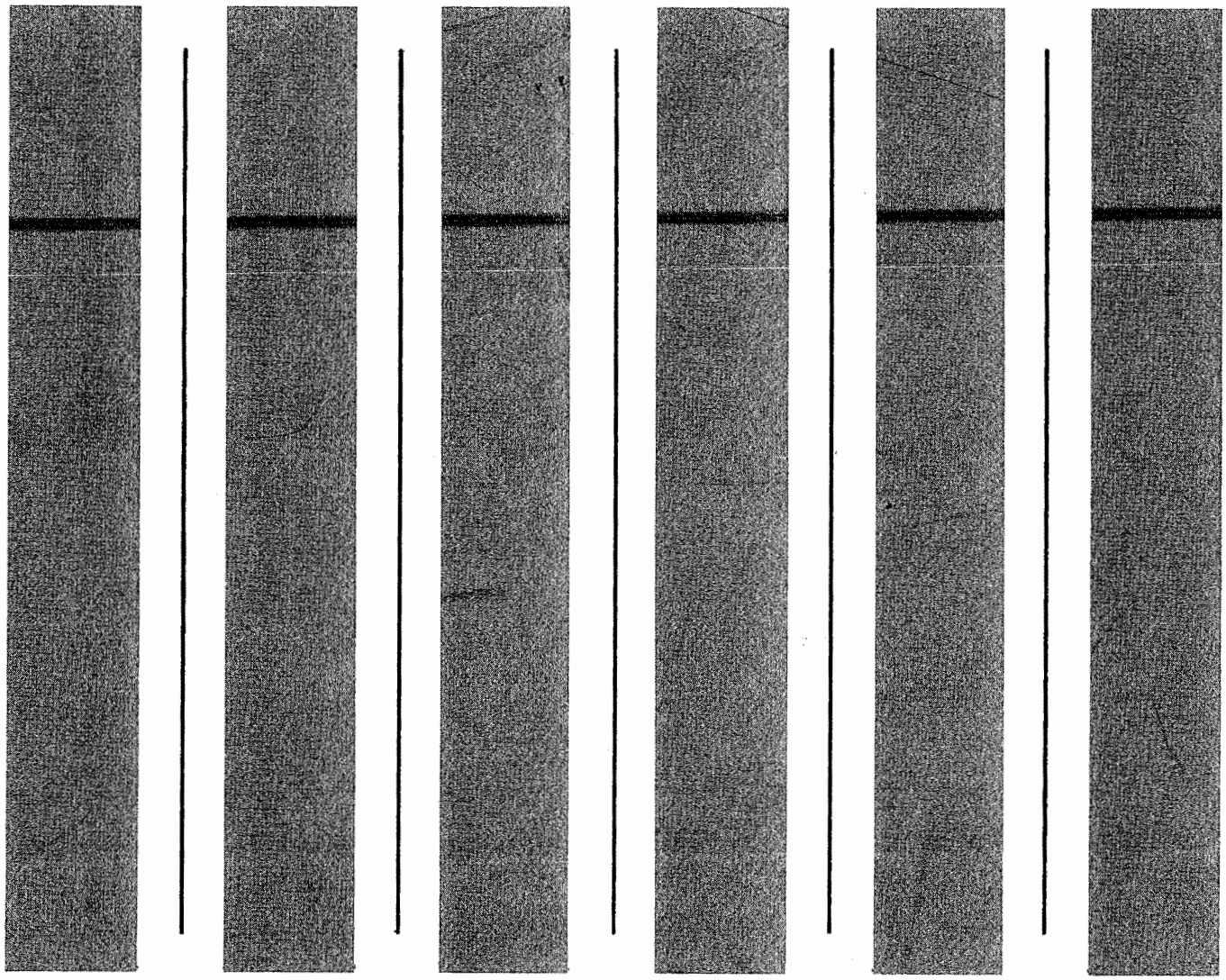
DO NOT REMOVE

PS17A PS47A PS67A PS77XV PS87A PS97XV



SCOTT®
The Name to listen to.

H. H. SCOTT, INC., 20 Commerce Way, Woburn, Mass. 01801, Tel. 617 933-8800

1. Notice:

The following safety precautions must be followed to assure continued reliability and safety against fire and shock hazard:

1) Replacement parts used during servicing of this appliance must have identical characteristics as those offered and recommended by H. H. Scott, Inc.

2) Satisfactory and approved service procedures dictate that ALL PARTS, no matter how apparently unimportant, be replaced exactly as in the original design.

   EXAMPLES:

   a) Braided glass tubing over resistors.
   b) Heatsinks on transistors.
   c) Ceramic tube spacers.
   d) All mechanical parts, i.e. covers, brackets, etc.

3) A dielectric test is to be performed on each appliance following the re-assembly and before returning the unit to the customer.

4) The dielectric test, to be performed on H. H. Scott, Inc. electronic components serviced in the U. S. and Canada for use in these countries, shall consist of not less than the following:*

   1) A dielectric tester designed to supply not less than 1100 volts at 60 Hz and employing leakage current indicator/s is to be used.

   2) The tester is to be connected per the instructions enclosed with the instrument, or as follows:

      a) The tester is connected to the power line receptacle, and the power switch is turned on.

      b) Sufficient time is allowed for the tester supply to stabilize and then the output voltage is adjusted for 1080 volts.

      c) Leads of the tester, usually marked GND and HV, are connected between chassis ground and both blades of the male plug of the power cord.

      d) Switch tester to "test" and observe leakage indicator.

         LEAKAGE CURRENT MUST NOT EXCEED 0.5 mA.

* Dielectric tests made by service personnel in countries other than United States and Canada must use test equipment and procedures specified by the safety agency serving that country.

CAUTION: Remove head shell from tone arm before applying dielectric test.

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2. SPECIFICATIONS:

	PS-17A	PS-47A	PS-67A	PS-77XV	PS-87A	PS-97XV
SPEED CONTROL	NONE	± 3%	± 3%	± 3% Quartz Lock	± 3%	± 3% Quartz Lock
MOTOR TYPE	4 pole sync.	FG DC	72 pole FG AC	72 pole FG AC	72 pole FG AC	72 pole FG AC
WOW/FLUTTER (WRMS)	0.07%	0.05%	0.03%	0.03%	0.03%	0.03%
S/N RATIO	52 dB	55 dB	60 dB	60 dB	60 dB	60 dB
TONE ARM LENGTH	210 mm	210 mm	210 mm	210 mm	210 mm	210 mm
STYLUS PRESSURE RANGE	1.5-4 grams	1-4 grams	1-3 grams	1-3 grams	1-3 grams	1-3 grams
ANTI SKATING RANGE	0-4 grams	0-4 grams	0-4 grams	0-4 grams	0-4 grams	0-4 grams
POWER CONSUMPTION	10 W	2 W	2 W	5 W	2 W	5 W
DRIVE SYSTEM	belt	belt	direct	direct	direct	direct
H/W/D	5½"17¾" 13 3/4"	5½"17¾" 13 3/4"	7"17¾" 13 3/4"	7"17¾" 13 3/4"	5¾"17¾" 13 3/4"	5½"17¾" 13 3/4"
TURNTABLE PLATTER	Alum. diecast	Alum. diecast	Alum. diecast	Alum. diecast	Alum. diecast	Alum. diecast
WEIGHT	15 lbs.	15 lbs.	20 lbs.	20 lbs.	20 lbs.	21 lbs.

2 a. RECOMMENDED EQUIPMENT:

1. AC high impedance voltmeter or DMM.
2. DC Millivolt meter or DMM.
3. Oscilloscope.
4. Volt-ohm meter.
5. Wow/flutter meter.
6. Broadcast test record. (CBS labs. STR. 151 or equivalent).
7. Supply of light machine oil. (not motor oil).
8. Tube of grease. (LUBRIPLATE or equivalent).
9. Suitable hand tools, cables, variable power line transformer.
10. Suitable line voltage and current monitoring meters.

----- NOTICE -----

Scott Electronic Components are manufactured with a serial number code to identify the production line, year, month and day of manufacture. The following information will explain the code.

a. Production Line.
b. Year.
c. Month (1-9, O. N. D.).
de. Day (01-31).
fgh. Serial no.

The following material has been prepared to provide service personnel with the information necessary to service any of the six different turntable models listed on the cover of this supplement. This information is to be used with the basic manual, part no. 029-1175-043.

H. H. Scott, Inc. reserves the right to make changes in model design and technology without giving prior notice.

3. GENERAL INFORMATION

The 1979 Series of Scott turntables (suffix "A") bear similarities to the 1978 series. For example the tone arms features dual race bearings in both the vertical and horizontal pivots, as in the 1978 series the PS-17A and PS-47A are belt driven models, the PS-17A is powered by and AC syncronos motor, the PS-47A uses a DC motor with a frequency generator for electronic speed control.

Other models in this series are direct driven by low speed precision built AC motors with external electronic speed control. The PS-77XV and PS-97XV have additional circuitry to permit operator selection of either the very accurate, Quartz controlled reference oscillator for the exact speed of 33.33 or 45.00 RPM or an adjustable speed to allow pitch adjustment as may be necessary when playing a musical instrument while listening to recorded music.

Models PS-17A, PS-47A, PS-67A and PS-77XV are semi-automatic types which permit automatic reject, arm return and motor shut-off. The PS-87A and PS-97XV are fully automatic models that start the play cycle by the push of a button and also offer the automatic reject/return features noted above.

4. MAINTENANCE

Maintenance procedures follow outlines described in the basic manual.

4.1 LUBRICATION

Lubrication procedures should also follow those outlined in the basic manual.

5.0-5.2 SERVICE ADJUSTMENTS

Models which are designed with electronic control circuits will usually require service for speed correction or motor operation only if the unit has been abused. A typical example would be an attempt to operate a turntable rated 120 v 60 Hz on a 220 v 50 Hz line or if tampered with by untrained personnel. All components used in the electronic circuitry have proven to be highly reliable in the normal home enviroment.

5.3 - 5.10 PICK-UP AND TONEARM ADJUSTMENTS

All models in this series return the arm to rest and shut off power at the end of play. Normal stylus distance above a single record in the return mode is 5/16 inch (8 mm) and is adjusted with the Height adjustment screw as shown on the exploded view for each model. PS-17A #77, PS-47A #41.3, PS-67A #22, PS-77XV #22. In the PS-87A and PS-97XV, this screw is not readily apparent on the exploded view, but is identified as the vertical adjustment directly below the tonearm base.

CAUTION: Turntables in this series will NOT require bending of actuating linkage parts unless certain parts have been damaged by some form of physical abuse.

Reasonable care must be exercised when making adjustments and, because of the greater use of plastic parts here:

DO NOT FORCE ANY COMPONENTS DURING DIS-ASSEMBLY OR WHEN RE-ASSEMBLING, PARTS BREAKAGE MAY RESULT. FOR ADJUSTMENTS REFER TO THE BASIC MANUAL AND EXPLODED VIEWS HERIN.

6. MOTOR DRIVE CIRCUIT THEORY, PS-47A

The electronic motor control circuitry used in the PS-47A is identical to that used in the earlier model PS-47, for explanation please refer to page 8 of the reference manual.

DRIVE MOTOR CIRCUIT THEORY, PS-67A and PS-87A (refer to schematic diagram page 10).

The drive motor used in these models is a low speed AC driven motor composed of a precision brass uni-bearing assembly mounted on a metal support bracket that forms part of the motor housing. Located around the bearing assembly are four coils connected in pairs so that each two on opposite sides are wired in series to form the field coils assemblies "A" and "B". The Rotor assembly consists of a precision ground shaft on which a disc with two ceramic multi-pole magnets are mounted. The drive magnet resembles a typical loudspeaker field magnet.

The first and larger magnet forms the motor drive element. A second smaller magnet mounted on the top side of the rotor disc is operated in conjunction with a pick-up coil to form a FREQUENCY GENERATOR. The final key part of the motor is two, dual HALL EFFECT DEVICES critically located below the drive rotor magnet.

Electronic Circuitry is composed of a basic transformer and bridge rectifier power supply with Zener diode regulators in both the plus and minus low voltage supplies. A NEON STROBE lamp is connected in the primary circuit through a current limiting resistor.

When power is first switched ON, current is applied to the motor coils A and B through transistors X6-X9. The magnetic field created will attract or repel the multipole ceramic magnet located directly above each coil and start the motor turning. As the motor turns, a sine wave is generated in the FREQUENCY GENERATOR winding which is applied to the input of IC-1, IC-1 amplifies and produces a square wave output fed into X-1 for further amplification. The output of X-1 is differentiated and the negative going pulses produced are applied to X-2 for amplification with the resulting positive going pulse applied to X-3. X-3 and X-4 form the motor speed control, where a variable bias on X-3 is set by the current through X-4, this current is operator adjusted by means of the 33 1/3 or 45 RPM SPEED CONTROLS.

By remotely changing the bias on X-3, the time period during which this device is turned ON is controlled and sets the pulse width applied to the base of X-5. X-5 amplifies and further forms the pulse for application to IC-1 pin 5 as a saw tooth, here it is further amplified and inverted for application to the HALL EFFECT DEVICES.

The HALL EFFECT DEVICES acting as a variable resistor in the presence of the magnetic field are designed so that the two inputs of IC-2 receive a signal which is out of phase and one which increses in amplitude as drag on the turntable plater is increased and is reduced in amplitude with reduced drag. A modified sine wave at the outputs of IC-2 drives the output transistors (X6-X9) and the motor.

DRIVE MOTOR & CIRCUIT THEORY PS-77XV and PS-97XV

Refer to schematic diagram on page 9.

The drive motor used in the PS-77XV and PS-97XV bears a strong resemblance to the motor used in those turntables without QUARTZ LOCK, however even though the two motors are similar in appearance and operate on the same principle they are not inter-changable.

Electronic circuitry for the models PS-77XV and PS-97XV except for the QUARTZ LOCK section is similar in principal to the PS-67A and PS-87A. It should be noted that because of the more complex drive circuitry the power requirements are greater therefore a some what more sophisticated regulated supply is used.

When power is switched ON, the motor coils are energized to attract or repel the multipole permenent magnet rotor, Proper Polarity of the energized coils is controlled by the position of the rotor magnet directly above the HALL EFFECT DEVICES. As the motor gains speed, voltage from the frequency generator coil is applied to pin 6 of IC-1 where the signal is amplified and applied to pin 4 of IC-3 as a square wave, X-2 is used to provide constant signal amplitude into IC-3.

IC-3 is a multifunction device containing the oscillator circuit and the speed control timing circuitry. Output at pin 7 is applied to IC-1 pin 3 where the square wave is further amplified and applied to the base of X-4 and X-5 through X-3 used here as a dynamic amplitude control with X-7, X-8, X-9 and X-10 as periphery devices.

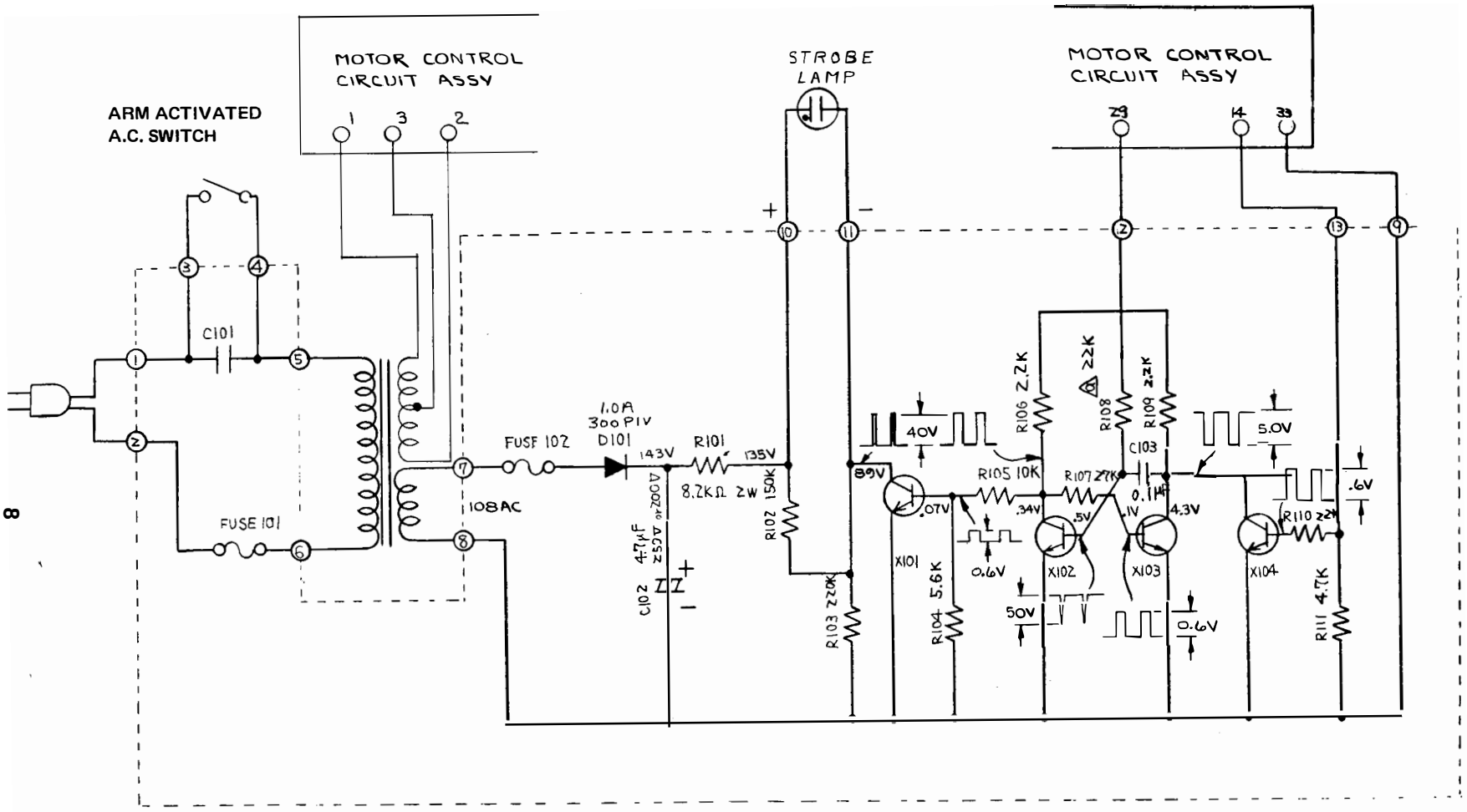
X-6, X-11 and X-12 provide amplified control signal to pin 6 of IC-3. Speed control adjustment in the QUARTZ OFF position is achieved by applying suitable bias to pin 5 of IC-3.

Output of X-4 and X-5 is feed to the HALL EFFECT DEVICES and the motor drive circuitry in the manner explained for the PS-67A and PS-87A.

– NOTES –

Power Supply Schematic Diagram

PS-77XV & PS-97XV

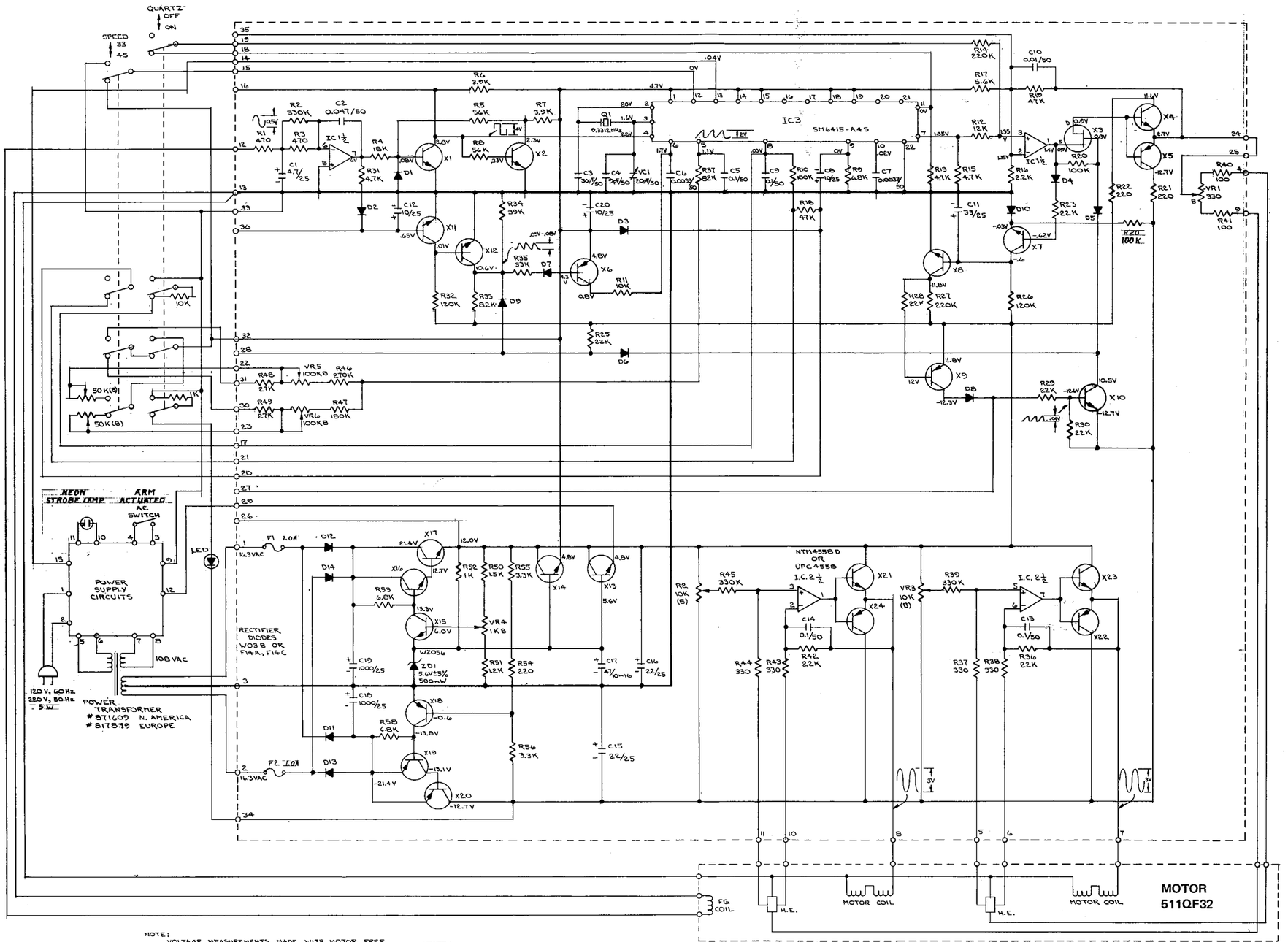


	UL	CSA	SEMKO
FUSE101	0.5A 250V UL	0.5A 250V	200mAT 250V SEMKO
FUSE102	0.1A 250V UL	0.1A 250V	100mAT 250V SEMKO
C101	0.047μF 125VAC	0.047μF 250VAC	0.022μF 250V

VOLTAGE MEASUREMENTS REFERRED TO TERMINAL (8) OF PC BOARD

D101	F14C
X101	2SC1278 (S) or 2SC1573 (G)(P)
X102, X103 X104	2SC945 (Q)(P) or 2SC733 (Y)(BL) or 2SC1815 (Y)(GR)

Schematic Diagram, Motor Drive Circuit
PS-77XV & PS-97XV



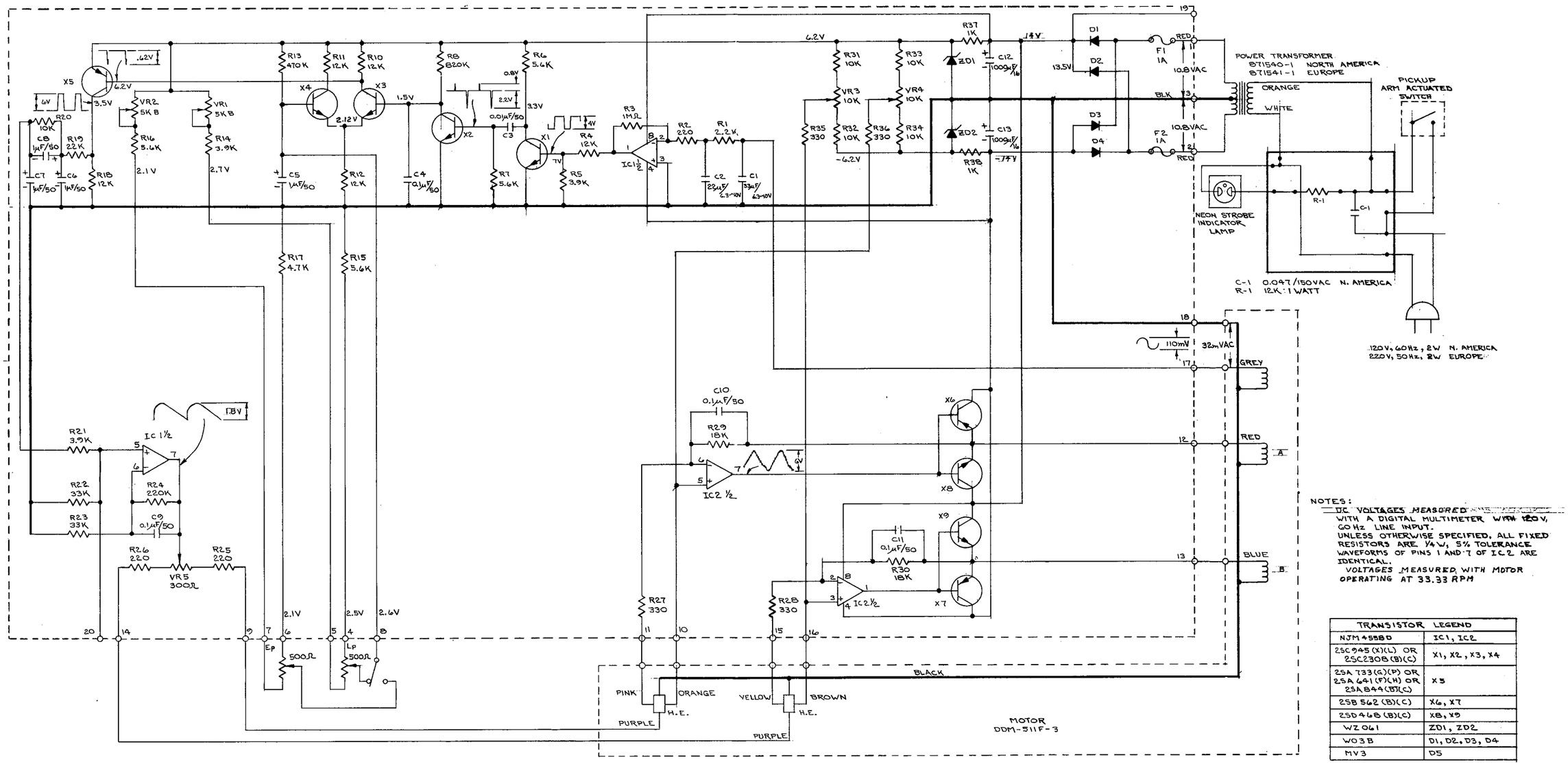
NOTE:
VOLTAGE MEASUREMENTS MADE WITH MOTOR FREE RUNNING AT 33.33 RPM, 120 VAC LINE UNLESS OTHERWISE SPECIFIED.

TRANSISTOR LEGEND	
2SC945 OR 2SC2308	X1, X2, X4, X7, X8, X10, X11, X12, X13, X14, X15, X16
2SA733 OR 2SA844	X5, X6, X9, X12, X18, X19
2SD794 OR 2SC1162	X21, X23
2SA715 OR 2SB744	X22, X24
2SK68	X3
2SC1419	X17
2SA755	X20
15953 OR 15553	D1-D10

CONTROL CIRCUIT
PS77XV
PS97XV

Schematic Diagram Motor Drive Circuit

PS-67A & PS-87A



NOTES:

DC VOLTAGES MEASURED WITH A DIGITAL MULTIMETER WITH 120V, 60Hz LINE INPUT.

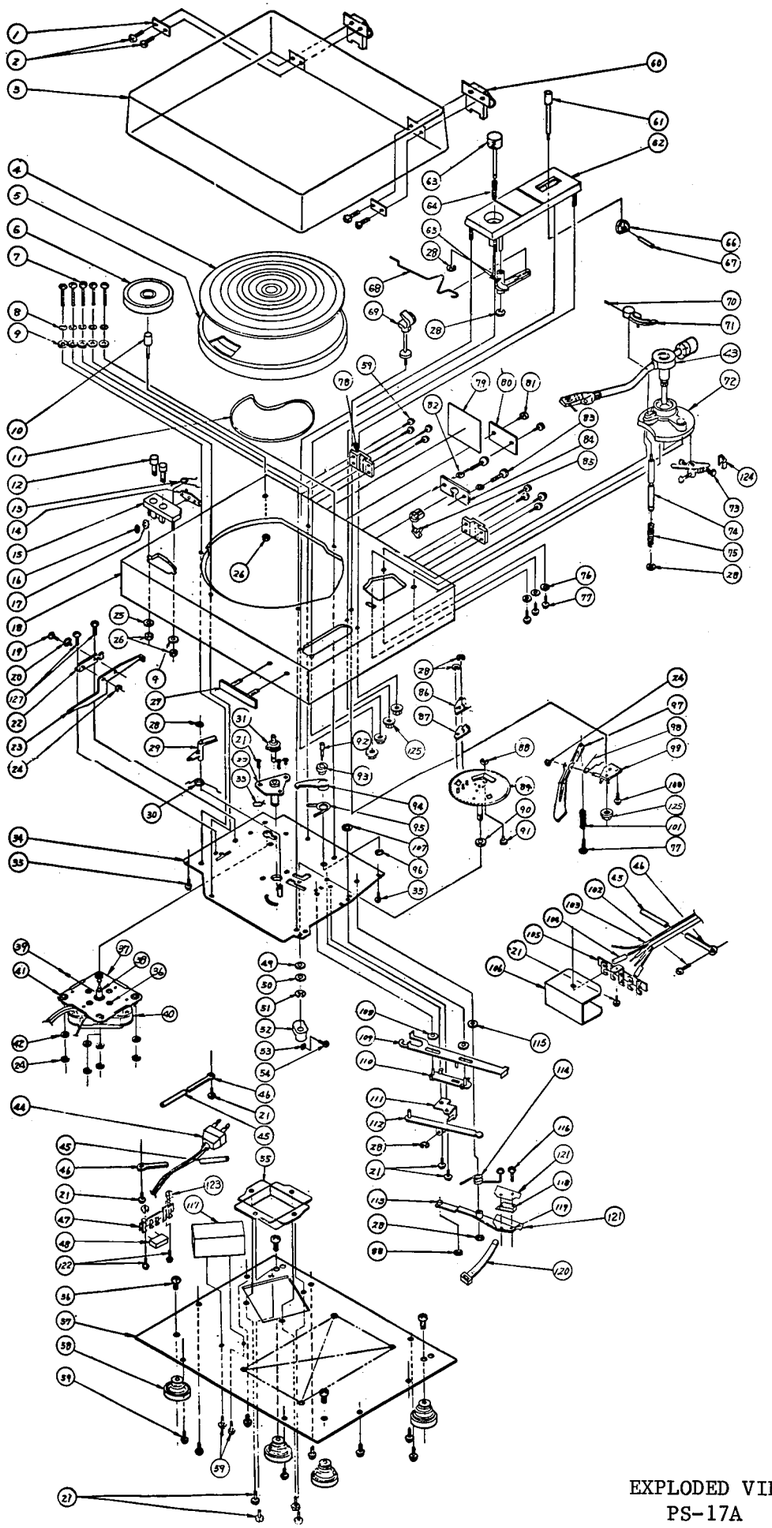
UNLESS OTHERWISE SPECIFIED, ALL FIXED RESISTORS ARE ¼W, 5% TOLERANCE

WAVEFORMS OF PINS 1 AND 7 OF IC 2 ARE IDENTICAL.

VOLTAGES MEASURED WITH MOTOR OPERATING AT 33.33 RPM

TRANSISTOR LEGEND	
NJM4558D	IC1, IC2
2SC945(X)(L) OR 2SC2308(B)(C)	X1, X2, X3, X4
2SA733(G)(P) OR 2SA641(F)(H) OR 2SA844(B)(C)	X5
2SB562(B)(C)	X6, X7
2SD468(B)(C)	X8, X9
WZ041	ZD1, ZD2
W03B	D1, D2, D3, D4
MV3	D5

CIRCUIT DIAGRAM
PS67A
PS87A

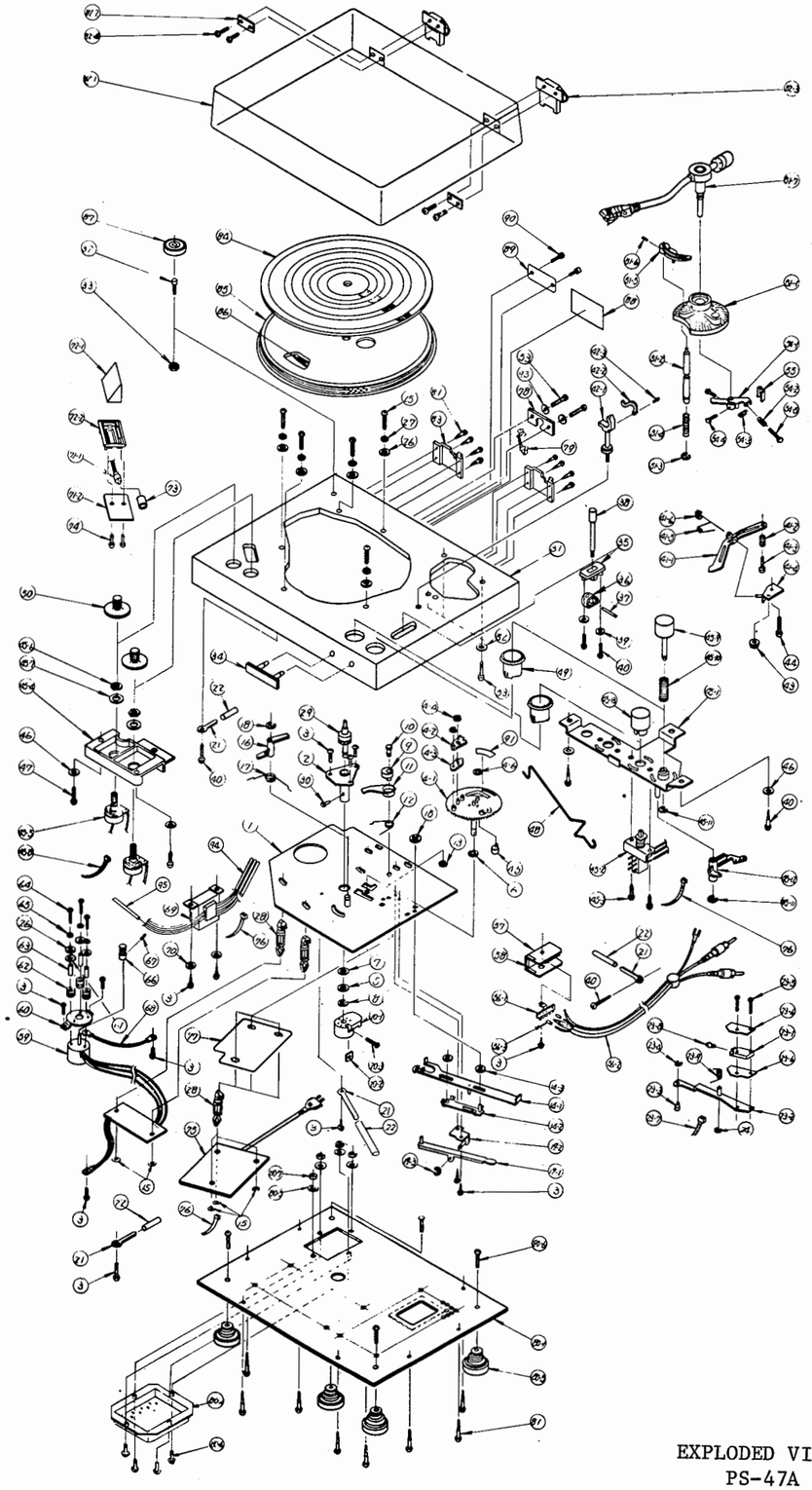


EXPLODED VIEW
PS-17A

PARTS LIST FOR PS-17A

Item No.	Dwg. No.	Q'nty	Description
1	895231	2	Hinge plate
2		4	Screw, FM + 4 x 8
3	851097	1	Dust cover
4	871222-3	1	Rubber Mat
5	620011	1	Turntable platter
6	890876	1	45 rpm adaptor
7		5	Screw, BT + 3 x 16
8		5	Spring washer, S, SW-3
9		6	Fiber washer, FW 3.2 x 13 x 0.8t
10	890097-1	1	45 rpm adaptor spindle
11	700515	1	Drive belt
12	893476	2	Speed change button ass'y
13	893180	1	Click spring
14	893477	1	Speed change cam
15	895772-1	1	Speed change covet
16		1	CS stopper, CS-3
17		2	Fiber washer, FW 3.2 x 8 x 0.5t
18	846845	1	Wooden base
19		1	Screw, FM + 3 x 8
20	893040	1	Eccentric pin
21		13	Screw, BT + 3 x 8
22	893046	1	Speed change base ass'y
23	870402	1	Speed change arm
24		6	E Washer, E-3
25		1	Fiber washer, FW 3.2 x 10 x 0.8t
26		3	Lock nut, FLN-3
27	895820	1	Badge Scott logo
28		8	E Washer, E-3.2
29	890218	1	Kick lever
30	890259	1	Return spring
31	701205	1	Turntable spindle ass'y
32	700514-1	1	Turntable bearing ass'y
33	E-271110	1	Stopper
34	851421	1	Sub chassis ass'y
35		2	Wooden screw, FMW + 3/1 x 8
36		4	Screw, M 3 x 6
37	896147	1	Motor mounting board
38	703740-2	1	Motor pulley
39		1	Stopping screw, T-2.6 x 2
40		1	Motor, IM-S275-12C-01 (Europe) Motor, IM-S275-12BUC-01 (USA)
41	702230	4	Rubber cushion for motor
42		4	Fiber washer, 4.6 x 13 x 1t
43	851434-1	1	Tonearm ass'y
44	895617	1	Power cord ass'ys (Europe)
	892435-1	1	Power cord ass'y (USA)
45		3	UL tube, 3 x 601
46	890755	3	Lug
47	894228	1	2L 5P terminal strip
48	892428-1	1	Capacitor (Europe)
	893370	1	Capacitor (USA)
49		1	Fiber washer, 5 x 10 x 0.2t
50		1	Fiber washer, .5 x 10 x 1t
51		1	E washer, E-4
52	890621	1	Switch lever (A)
53		1	M-3 square nut
54		1	Screw, FM + 3 x 8
55	896447	1	Motor cover
56		4	Screw, FM + 4 x 10
57	871514-2	1	Bottom cover
58	895773	4	Rubber foot ass'y
59		18	Wooden screw, WM + 3.1 x 16
60	895215	2	Auto hinge ass'y
61	892399-1	1	Cueing rod ass'y
62	871211-1	1	Reject cover ass'y
63	893195-1	1	Reject button ass'y
64	892084	1	Reject button spring
65	892085	1	Reject lever
66	895190	1	Cueing cam
67	894774-1	1	Cueing cam spindle
68	895822	1	Reject spring
69	890632-6	1	Tonearm rest ass'y
70		1	Stopping screw, FT-2.6 x 4
71	893869	1	Elevation plate
72	871530-1	1	Tonearm base ass'y
73	893583	1	Feed arm ass'y (2)
74	892326	1	Elevation spindle
75	E-832780-1	1	Elevation spring
76		3	Fiber washer, FW 3.2 x 10 x 0.5t
77		4	Screw, FM + 3 x 14
78	895259	2	Hinge lock plate
79	897073	1	Rating label
80	895827	1	Serial number plate
81		2	OS screw, 3 x 8
82		2	Fiber washer, FW 3.2 x 8 x 0.5t
83		2	Screw, FM + 3 x 10
84	893037	1	Power cord fixing plate
85	891568-3	1	SR bushing
86	894738	1	Clutch plate ass'y
87	894736	1	Clutch guide (1)
88	E-813152	2	Spring washer
89	891210	1	R gear ass'y (1)
90		1	Fiber washer, 3 x 10 x 0.5t
91	817790	1	Eccentric pin
92	890620	1	GS stud
93	890619	1	GS eccentric pin
94	890618	1	GS arm
95	890628	1	GS spring
96	E-813153	1	Spring washer
97	870252	1	Cueing see-saw
98	894184	1	See-saw spring
99	895824	1	Cueing see-saw base ass'y (1)
100		1	Screw, FMT + 3 x 5

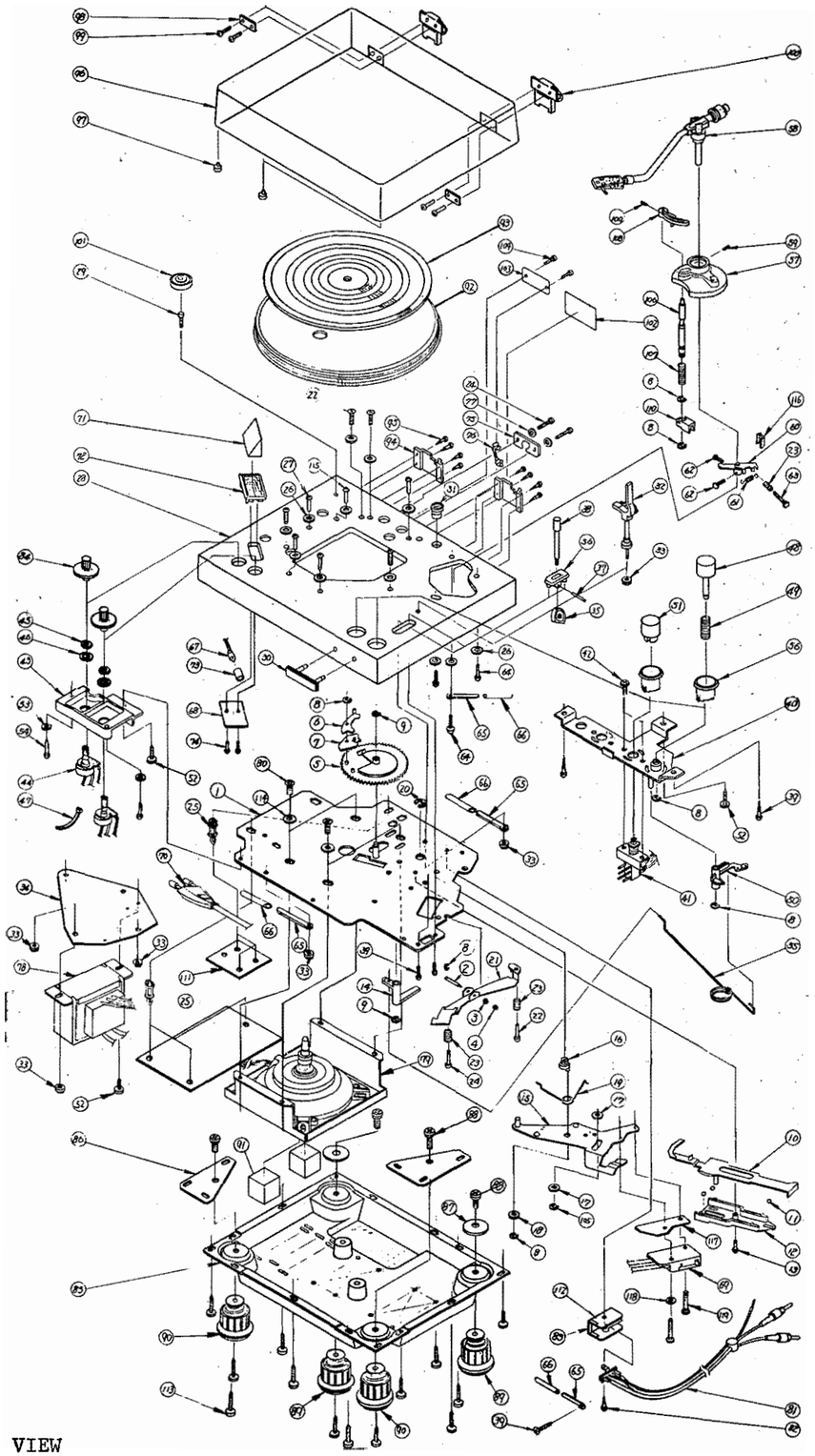
Item	Dwg. No.	Q'nty	Description
101	E-813681	1	Lock spring
102		1	Screw, FMT + 3 x 8
103	871474-2	1	Phono output cable ass'y
104		2	Varnished tube
105	890978	1	1L 5P terminal strip
106	890959	1	Screen plate
107		1	CS stopper, CS-3.5
108	890765	2	Actuating washer
109	890709-3	1	Actuating arm ass'y
110	870038	1	Actuating base
111	890767	1	See-saw base ass'y
112	E-830151	1	See-saw arm ass'y
113	890995	1	Eccentric pin
114	892331	1	See-saw arm spring
115		1	Washer, BW 5 x 10 x 0.2t
116		2	Poly-carbonate screw, FM + 3 x 16
117	897141	1	Wooden piece
118	894614	1	Micro switch
119	890994-3	1	Switch arm ass'y
120	894408	1	Wire fastener
121	893803	2	Insulation sheet
122		2	Screw, FMT + 3 x 12
123	700811	2	T shape spacer
124	894756	1	Feed arm cover
125		5	Nut with washer, N-3
126			
127		2	Screw, CT + 3 x 5
		1	Packing carton
		2	End cap cushion
		1	Owner's manual



EXPLODED VIEW
PS-47A

PARTS LIST FOR PS-47A

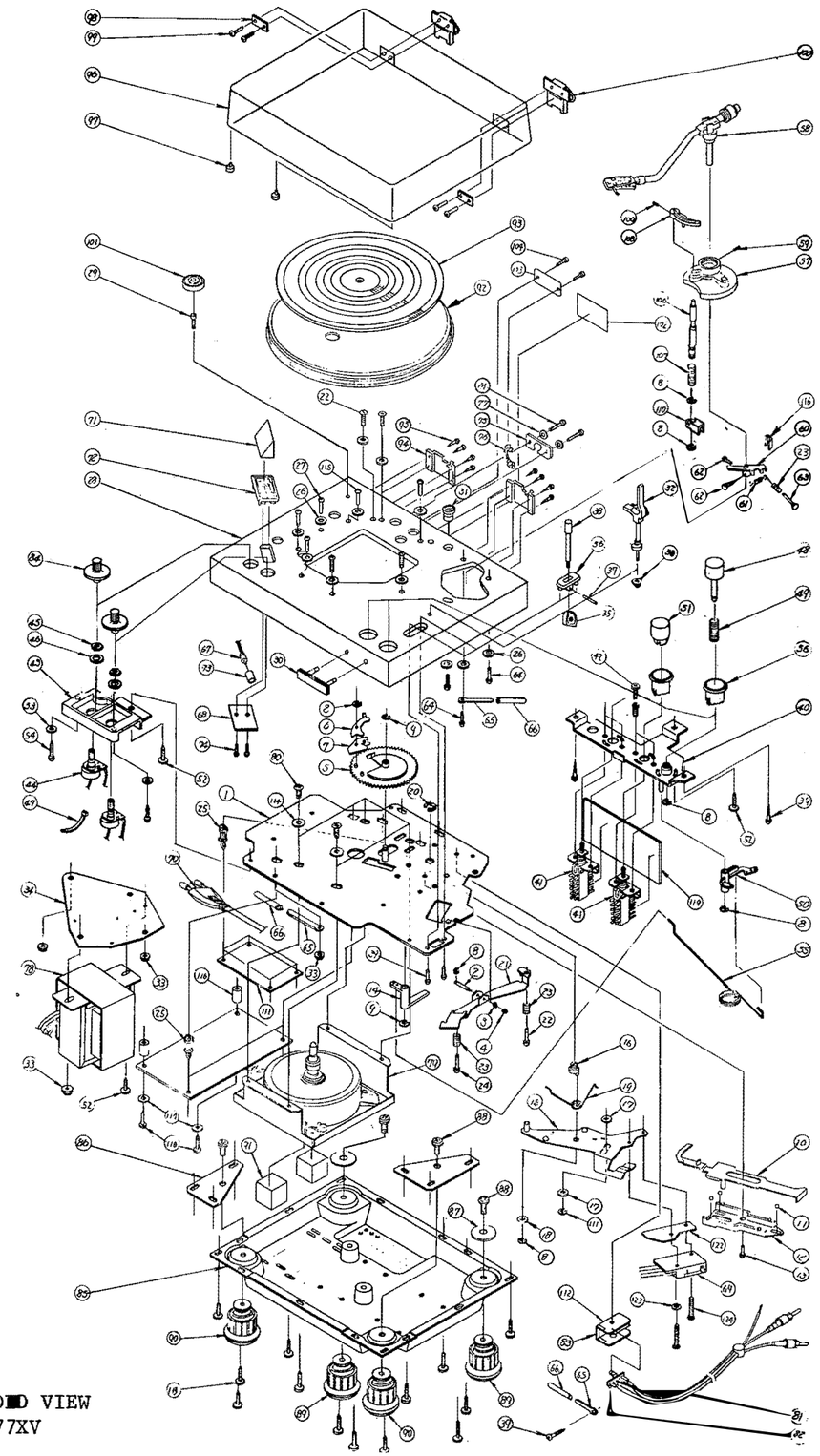
Item No.	Dwg. No.	Q'nty	Description
1	850901-3	1	Sub chassis ass'y
2	895092	1	Turntable bearing ass'y
3		8	Screw, Bt + 3 x 8
4	894821	1	R gear ass'y (2)
4-1	891210	1	R gear ass'y (1)
4-2	894738	1	Clutch plate ass'y
4-3	894736	1	Clutch guide (1)
4-3		(2)	E washer, E-3.2
4-4	817790	1	Eccentric pin
4-5	813152	(1)	Spring washer
5		1	Fiber washer, 5 x 10 x 0.2t
6		1	Fiber washer, 5 x 10 x 0.5t
7		1	Fiber washer, 5 x 10 x 1t
8		1	E washer, E-4
9	890619	1	GS eccentric shaft
10	890620	1	GS stud
11	890618	1	GS arm
12	890628	1	GS spring
13	813153	1	Spring washer
14	870095-3	1	Actuating arm ass'y
14-1	890709-3	1	Actuating arm ass'y
14-2	870038	1	Actuating base
14-3	890765	2	Actuating washer
15		6	CS stopper
16	890218	1	Kick lever
17	890259	1	Return spring
18		4	E washer, E-3.2
19	890794	1	See-saw ass'y
19-1	830151	1	See-saw arm ass'y
19-2	890767	1	See-saw base ass'y
19-3		(1)	E washer, E-3.2
20	890721	1	Switch lever (A) ass'y
20-1	890621	1	Switch lever (A)
20-2		1	Square nut, M-3
20-3		1	Screw, FM + 3 x 8
21	890755	4	Lug
22		4	UL tube
23	895842	1	Switch ass'y
23-1	894614	1	Micro switch
23-2	890995	1	Eccentric pin
23-3	890994-3	1	Switch arm ass'y
23-4	813152	1	Spring washer
23-5		2	Poly carbonate screw, M + 3 x 16
23-6	893803	2	Insulation sheet
23-7	894408	1	Wire fastener
23-8	892484	1	Insulation sleeve
23-9	892331	1	Switch arm spring
24		2	E washer, E-3
25		5	Screw, BT + 3 x 16
26		9	Fiber washer, FW 3.2 x 13 x 0.8t
27		5	Spring washer, S.SW-3
28	894023-1	5	PCB support
29	895047	1	Turntable spindle ass'y (2)
30	894271	1	Stopper pin
31	846927	1	Wooden cabinet
32	890097-1	1	45 rpm adaptor spindle
33		1	Lock nut FLN-3
34	895820	1	Badge, Scott logo
35	895724-1	1	Cueing cover
36	895190	1	Cueing cam
37	894774-1	1	Cam spindle
38	892399-1	1	Cueing rod ass'y
39		2	Fiber washer, FW 3.4 x 10 x 1t
40		6	Screw, FMT + 3 x 8
41	895825	1	Cueing see-saw ass'y
41-1	870252	1	Cueing see-saw
41-2		(1)	Screw, FM + 3 x 14
41-3	813681	1	Lock spring
41-4	895824	1	See-saw base ass'y
41-5	894184	1	See-saw spring
41-6		(1)	E washer, E-3
42	890632-6	1	Tonearm rest ass'y
42-1	890630-3	1	Tonearm rest
42-2	890631-1	1	Arm lock
42-3		1	Screw, FMT + 2.6 x 6
43	890632-6	1	Nut with washer
44		1	Screw, FMT + 3 x 6
45	871760	1	Control plate ass'y (4)
45-1	896850	1	Control plate ass'y
45-2	851105	1	Speed change push switch
45-3		3	Screw, FM + 3 x 6
45-4	896866	1	Potentiometer base
45-5	703062	2	Potentiometer
45-6		2	Nut for potentiometer
45-7		2	Fiber washer, FW 7.2 x 12 x 0.5t
45-8	894408	(1)	Wire fastener
45-9	895177-1	1	Reject button ass'y
45-10	892084-1	1	Reject button spring
45-11		(2)	E washer, E-3
45-12	894654	1	Reject lever
45-13	895198	1	Speed change push button ass'y
46		4	Fiber washer, FW 3.2 x 8 x 1t
47		2	Wooden screw, WM + 3.1 x 16
48	895822	1	Reject spring
49	895728-1	2	Button collar (1)
50	894265-2	2	Pitch control knob
51	851233	1	Tonearm ass'y
51-1	871761	1	Tonearm ass'y (1)
51-2	892326	1	Elevation spindle
51-3		(1)	E washer, E-3.2
51-4	832780-1	1	Elevation spring
51-5	892802	1	Elevation plate
51-6		1	Stopping screw, FT - 2.6 x 4
51-7	851434-1	1	Tonearm ass'y
52		3	Fiber washer, FW 3.2 x 10 x 0;5t
53		6	Screw, FM + 3 x 14
54	893583	1	Feed arm ass'y (2)
54-1	893582	1	Feed arm ass'y (1)
54-2	813681	1	Lock spring
54-3	801553	1	Arm spring
54-4		2	Nut, M 3 x 6
54-5		1	Nut M 3 x 14
55	894756	1	Feed arm cover
56	896843	1	1L 5P terminal strip ass'y
56-1	890979	1	1L 5P terminal strip
56-2	871474-2	1	Phono output cable ass'y
56-3		2	Varnished tube
57	890959	1	Screen plate
58		1	Insulation tape
59	631588	1	Motor ass'y, DMS-148F-66S-1
60	893931	1	Motor mounting board
61		1	Fiber washer, 4.7 x 10 x 1t
62	242020	3	Rubber cushion for motor
63	234971	3	Pipe
64		3	Screw, FM + 2.6 x 12
65		3	Spring washer, S.SW-2.6
66	894021	1	Motor pulley
67		1	Stopping screw, T 2 x 3
68	894509-1	1	Grounding wire ass'y
69	870644-1	1	Power transformer (Europe)
	870645-1	1	Power transformer (USA)
70		2	Fiber washer, FW 3 x 10 x 1t
71	896862-2	1	Lamp plate ass'y
71-1	897045	1	Neon lamp
71-2	896861	1	Lamp plate
72	896865	1	Prism ass'y
72-1	896863	1	Prism
72-2	896864	1	Prism holder
73	895692	1	UL tube
74		2	Screw, FMT + 2.6 x 6
75	871762	1	Power supply circuit ass'y (Europe)
	871846	1	Power supply circuit ass'y (USA)
76	894408	5	Wire fastener
77	897278	1	Insulation sheet
78	893037	1	Power cord fixing plate
79	891568-3	1	SR bushing
80	871764	1	Bottom cover ass'y
80-1	871763	1	Bottom cover
80-2	895441	1	Motor cover
80-3		(4)	Fiber washer, FW 3.2 x 13 x 0.8t
80-4		(4)	Screw, FM + 2.6 x 12
80-5	895773	4	Rubber foot
80-6		4	FM + 4 x 10
80-7		4	Lock nut, FLN-2.6
81		16	Wooden screw, WM + 3.1 x 16
82	851134	1	Dust cover ass'y
82-1	851097	1	Dust cover
82-2	895231	2	Hinge plate
82-3	895215	2	Auto hinge ass'y
82-4		4	Screw, FM + 4 x 8
83	895259	2	Lock plate
84	871222-3	1	Rubber mat
85	620021-1	1	Turntable platter
86	700515	1	Drive belt
87	890876	1	45 rpm adaptor
88	897153	1	Rating label
89	895827	1	Serial number plate
90		2	OS screw, 3 x 8
91	890476	1	Rotary direction indication tag
92	813152	2	Spring washer
93		2	Fiber washer, FW 3.2 x 8 x 0.5t
94		3	UL tube, 3.3 x 1401
95		1	UL tube, 3.3 x 1101
		1	Packing carton
		2	End cap cushion
		1	Owner's manual



EXPLODED VIEW
PS-67A

PARTS LISTS FOR PS-67A

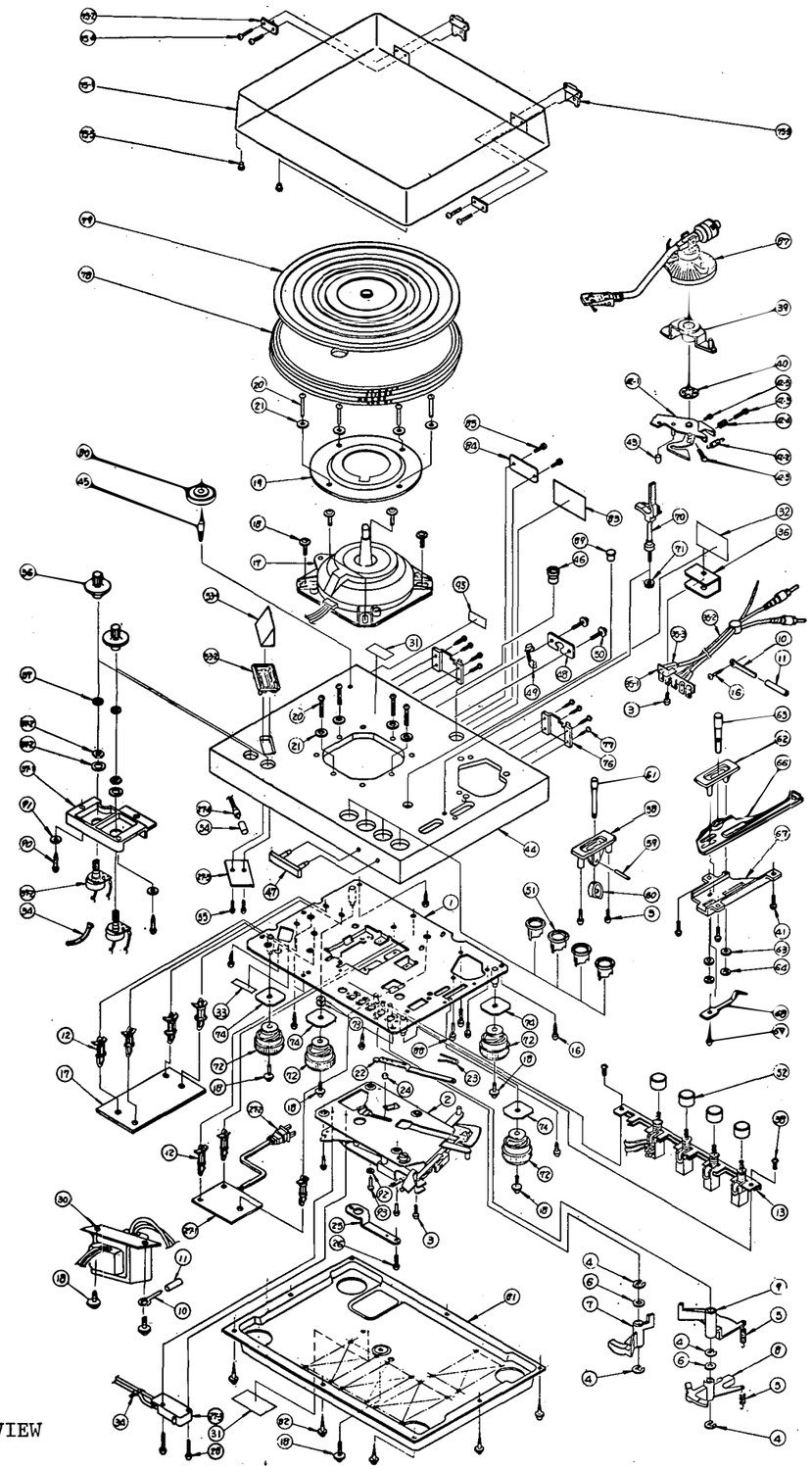
Item No.	Dwg No.	Q'nty	Description
1	851485	1	Sub chassis ass'y
2	890322-2	1	Cueing see-saw spindle
3		1	Spring washer, S.SW-3
4		1	Lock nut, FLN-3
5	895248	1	R gear ass'y
6	894901	1	Clutch plate
7	894902	1	Clutch guide
8		7	E washer, E-3
9		2	E washer, E-3.2
10	870933-1	1	Actuating arm
11		3	Steel ball, 3.9688
12	870932-1	1	Actuating base
13		1	Screw, BT + 3 x 12
14	895431	1	Kick lever
15	896487	1	Function plate ass'y
16	895073	1	Eccentric pin (2)
17		2	Fiber washer, FW 3.2 x 10 x 0.5t
18		1	Washer, BW 5.2 x 10 x 0.2t
19	895251	1	Spring (1)
20		1	Spring washer
21	871722	1	Cueing see-saw ass'y
22		2	Screw, FM + 3x 16
23	E-813681	3	Lock spring
24		3	Screw, FN + 3 x 12
25	894023	6	PCB support
26		12	Fiber washer, FW 3.2 x 10 x 1t
27		7	Screw, CT + 3 x 16
28	846783	1	Wooden base
29	890097-1	1	45 rpm adaptor spindle
30	895820	1	Badge, Scott logo
31	892373	1	Head shell stand
32	897043	1	Tonearm rest ass'y
33		5	Nut with washer
34	897128	1	Power transformer mounting board
35	895190	1	Cueing cam
36	895724-1	1	Cueing cover
37	894774-1	1	Cueing cam spindle
38	892399-1	1	Cueing rod ass'y
39		5	Screw, FMT + 3 x 8
40	896850	1	Control plate ass'y (1)
41	851105	2	Push switch
42		4	Screw, FM + 3 x 6
43	896866	1	Potentiometer base
44	703062	2	Potentiometer
45		2	Nut for potentiometer
46		2	Washer for potentiometer
47	894408	12	Wire fastener
48	895177-1	1	Reject button ass'y
49	892084-1	1	Button spring
50	894654	1	Reject lever
51	895198	2	Push button ass'y
52		3	Screw, TP, + 3 x 8
53		2	Fiber washer, FW, 3.2 x 8 x 1t
54		2	Wooden screw, WM + 3.1 x 16
55	894655-1	1	Reject spring
56	895728-1	3	Collar for button (1)
57	871761	1	Tonearm base ass'y (1)
58	851530	1	Tonearm ass'y
59		1	Stopping screw, M 4 x 8
60	893582	1	Feed arm ass'y (1)
61	E-801553	1	Arm spring
62		2	Hex head screw, M 3 x 6
63		1	Hex head screw, M 3 x 20
64		3	Screw, FM + 3 x 14
65	890755	3	Lug
66		3	UL tube
67	897045	1	Neon lamp
68	896861	1	Lamp plate
69	895430-1	1	Micro switch
70	895617	1	Power supply cord ass'y (Europe)
70-1	892435-1	1	Power supply cord ass'y (USA)
71	896863	1	Prism
72	896864	1	Prism holder
73	895692	1	UL tube
74		2	Screw, FMT + 2.6 x 6
75	893037-2	1	Power cord fixing plate
76	891568-3	1	SR bushing
77		2	Fiber washer, FW 3.2 x 8 x 0.5t
78	871541-1	1	Power transformer (Europe)
78	871540-1	1	Power transformer (USA)
79	631577-3	1	Motor, DDM-511-F32
80		4	Screw,
81	896843	1	1L 5P terminal strip ass'y,with phono
82		1	output cable
82-1		1	Screw, BT + 3 x 8
83		3	UL tape
84	894265-2	2	Pitch control knob
85	851488	1	Bottom cover
86	896867	2	Rubber foot mounting plate
87		2	Fiber washer, FW 4 x 28 x 1t
88		4	Screw, FM + 4 x 10
89	896473	2	Rubber foot
90	896473-1	2	Rubber foot
91	890432	2	Foamed plastic
92	620039	1	Turntable platter
93	871222-3	1	Rubber mat
94	895259	2	Lock plate
95		8	Screw, FMT + 3 x 12
96	851097	1	Dust cover
97		2	Dust cover cushion
98	895231	2	Hinge plate
99		4	Screw, FM + 4 x 8
100	895215	2	Auto hinge ass'y
101	890876	1	45 rpm adaptor
102	896949	1	Rating label
103	895827	1	Serial number plate
104		2	OS screw, 3 x 8
105		1	E washer E-2
106	896859	1	Elevation spindle
107	832780	1	Elevation spring
108	892802	1	Elevation plate
109		1	Stopping screw, FT -- 2.6 x 4
110	896860	1	Elevation spindle holder
111	871536	1	Power supply circuit ass'y (Europe)
111	871536	1	Power supply circuit ass'y (USA)
112	890959	1	Screen plate
113		13	Screw, TP + 3 x 18
114		4	Fiber washer, FW 4 x 12 x 0.8t
115		1	FM + 3 x 18
116	894756	1	Feed arm cover
117	893803-3	1	Insulation sheet
118		1	Nylon washer, 3 x 6 x 1t
119		2	Poly carbonate screw, M 2.6 x 15
		1	Packing carton
		2	End cap cushion
		1	Owner's manual



EXPLODED VIEW
PS-77XV

PARTS LISTS FOR PS-77XV

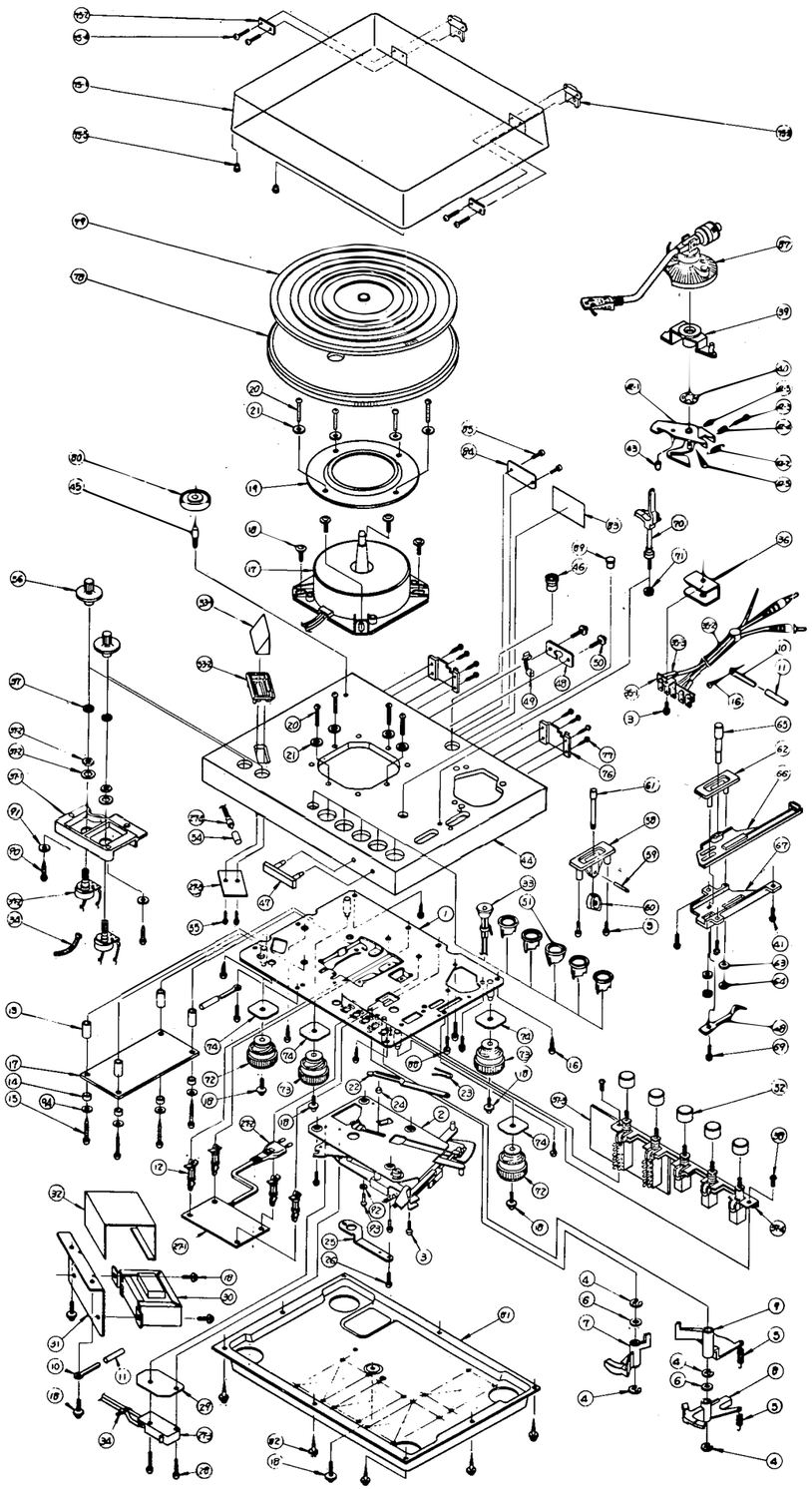
Item No.	Dwg No.	Q'nty	Description
1	851485	1	Sub chassis ass'y
2	890322-2	1	Cueing see-saw spindle
3		1	Spring washer, S.SW-3
4		1	Lock nut, FLN-3
5	895248	1	R gear ass'y (1)
6	894901	1	Clutch plate
7	894902	1	Clutch guide
8		7	E washer, E-3
9		2	E washer, E-3.2
10	870933-1	1	Actuating arm
11		3	Steel ball, 3.9688
12	870932-1	1	Actuating base
13		1	Screw, BT + 3 x 12
14	895431	1	Kick lever
15	896487-1	1	Function plate ass'y
16	895073	1	Eccentric pin (2)
17		2	Fiber washer, FW 3.2 x 10 x 0.2t
18		1	Washer, BW 5.2 x 10 x 0.2t
19	895251	1	Spring (1)
20		1	Spring washer
21	871722	1	Cueing see-saw ass'y
22		2 2	Screw, FM + 3 x 16
23	E-813681	3	Lock spring
24		3	Screw, FM + 3 x 16
25	894023	6	PCB support
26		12	Fiber washer, FW 3.2 x10 x 1t
27		7	Screw, CT + 3 x 16
28	846783-1	1	Wooden base
29	890097-1	1	45 rpm adaptor spindle
30	895820	1	Badge, Scott logo
31	892373	1	Head shell stand
32	897043	1	Tonearm rest ass'y
33		5	Nut with washer
34	897128	1	Power transformer mounting board
35	895190	1	Cueing cam
36	895724-1	1	Cueing cover
37	894774-1	1	Cueing cam spindle
38	892399-1	1	Cueing rod ass'y
39		5	Screw, FMT + 3 x 8
40	896850	1	Control plate ass'y (1)
41	871729	2	Push switch
42		4	Screw, FM + 3 x 8
43	896866	1	Potentiometer base
44	703062-3	2	Potentiometer
45		2	Nut for potentiometer
46		2	Washer for potentiometer
47	894408	12	Wire faatener
48	895177-1	1	Reject button ass'y
49	892084-1	1	Button spring
50	894654	1	Reject lever
51	895198	2	Push button ass'y
52		3	Screw, TP + 3 x 8
53		2	Fiber washer, FW 3.2 x 8 x 1t
54		2	Wooden screw, WM + 3.1 x 16
55	894655-1	1	Reject spring
56	895728-1	3	Collar for button(1)
57	871761	1	Tonearm base ass'y (1)
58	851530	1	Tonearm ass'y
59		1	Stopping screw, M 4 x 8
60	893582	1	Feed arm ass'y (1)
61	E-801553	1	Arm spring
62		2	Hex head screw, M 3 x 6
63		1	Hex head screw, M 3 x 20
64		3	Screw, FM + 3 x 14
65	890755	3	Lug
66		3	UL tube
67	897157	1	Neon lamp
68	896861	1	Lamp plate
69	895430-1	1	Micro switch
70	895617	1	Power supply cord ass'y (Europe)
70-1	892435-1	1	Power supply cord ass'y (USA)
71	896863	1	Prism
72	896864	1	Prism holder
73	895692	1	UL tube
74		2	Screw, FMT + 2.6 x 6
75	893037-2	1	Power cord fixing plate
76	891568-3	1	SR bushing
77		2	Fiber washer, FW 3.2 x 8 x 0.5t
78	871879	1	Power transformer (Europe)
78	871609	1	Power transformer (USA)
79	631614-3	1	Motor, DDM-511QF32
80		4	Screw
81	896843	1	1L 5P terminal strip ass'y (with phono output cable)
82		1	Screw, BT + 3 x 8
83		3	UL tape
84	894265-2	2	Pitch control knob
85	851488	1	Bottom cover
86	896867	2	Rubber foot mounting plate
87		2	Fiber washer, FW 4 x 28 x 1t
88		4	Screw, FM + 4 x 10
89	896473	2	Rubber foot
90	896473-1	2	Rubber foot
91	890432	2	Foamed plastic
92	620041	1	Turntable platter
93	871222-3	1	Rubber mat
94	895259	2	Lock plate
95		8	Screw, FMT + 3 x 12
96	851097	1	Dust cover
97		2	Dust cover cushion
98	895231	2	Hinge plate
99		4	Screw, FM + 4 x 8
100	895215	2	Autohinge ass'y
101	890876	1	45 rpm adaptor
102	896952	1	Rating label
103	895827	1	Serial number plate
104		2	OS screw, 3 x 8
105			
106	896859	1	Elevation spindle
107	832780	1	Elevation spring
108	892802	1	Elevation plate
109		1	Stopping screw, FT - 2.6 x 4
110	896860	1	Elevation spindle holder
111		1	E washer, E-2
112	631629-3	1	Power supply circuit ass'y (Europe)
112	631629-1	1	Power supply circuit ass'y (USA)
113	890959	1	Screen plate
114		13	Screw, TP + 3 x 12
115		4	Fiber washer, FW 4 x 12 x 0.8t
116		1	FM + 3 x 18
117	832380-3	2	Spacer for motor
118		2	Fiber washer, 3 x 6 x 1t
119		2	Wooden screw, WM + 3.1 x 23
120	871734	1	Switch wiring board ass'y
121	896943	1	L. E. D. ass'y
122	894756	1	Feed arm cover
123	893803	1	Insulation sheet
124		1	Nylon washer, 3 x 6 x 1t
125		2	Poly carbonate screw, M 2.6 x 15
		1	Packing carton
		2	End cap cushion
		1	Owner's manual



EXPLODED VIEW
PS-87A

PARTS LISTS FOR PS-87A

Item No.	Dwg No.	Q'nty	Description
1	851553	1	Main board ass'y
2	846898-1	1	Sub-chassis ass'y
3		8	Screw, BT + 3 x 8
4		4	E washer, E-3
5	891443	2	Start lever spring
6		2	Washer, BW 4.5 x 10 x 0.3
7	895590	1	Repeat cam
8	895589	1	Start cam
9	895588	1	Reject cam
10	890755	3	Lug
11		3	UL tube
12	896424-1	7	PCB support
13	871831	1	Switch board ass'y
14			
15		4	Screw, FMT + 3 x 22
16		7	Screw, FMT + 3 x 8
17	631572-2	1	DC motor, DDM-511-F22
18		7	Screw, TP + 3 x 6
19	871712-1	1	Motor cover
20		8	Screw, BT + 3 x 16
21		8	Fiber washer, FW 3 x 10 x 1
22	870066	1	Actuating arm
23	891092	1	Stopper pin
24		1	4 steel ball
25	896300	1	Gear spindle plate
26		1	Screw, FM + 3 x 6
27	871611-2	1	Power supply source ass'y
27-1	871536	1	Power supply P. C. B. ass'y (USA)
27	871536-1	1	Power supply P. C. B. ass'y (Europe)
27-2	892435-1	1	Power supply cord ass'y (USA)
27	895617	1	Power supply cord ass'y (Europe)
27-3	891340-1	1	Micro switch
27-4	897045	1	Neon lamp
27-5	896862-4	1	Neon lamp P.C B. ass'y
28			
29			
30	871540-1	1	Power transformer (USA)
20	871541-1	1	Power transformer (Europe)
31	893389	1	Caution label (UL)
32	893536	1	Warning label (UL)
33	894783-2	1	Fuse replacement caution label (UL)
34	894408	10	Wire fastener
35	896843	1	Phono output cable ass'y
35-1	890979	1	5P terminal strip
35-2	871474-2	1	Phono output cable
35-3		2	Varnished tube
36	890959	1	Screen plate
37	871830	1	Volume ass'y
37-1	896866	1	Potentiometer base
37-2	703062-3	2	Potentiometer
38		2	Screw, FM + 3 x 6
39	897238-1	2	Record size select cam
40		1	CS stopper, CSTW 12
41		3	Screw, FM + 3 x 16
42	891458-2	1	Feed arm ass'y
42-1	891482	1	Feed base (3) ass'y
42-2	801553	1	Feed arm spring
42-3		1	Hex head screw, M 3 x 20
42-4	813681	1	Lock spring
42-5	891458-2	1	Feed base (4) ass'y
43	891452-1	1	Friction rubber
44	846897-1	1	Wood base
45	890097-1	1	45 rpm adaptor spindle
46	892373	1	Head shell stand
47	895820	1	Badge, Scott logo
48	892624-2	1	Power cord fixing plate
49	891568	1	SR bushing
50		2	Screw, TPM + 3 x 14
51	896016-1	4	Button ring
52	897222	4	Push button ass'y
53	896865	1	Prism ass'y
53-1	896864	1	Prism
53-2	896864	1	Prism holder
54	895692	1	UL tube
55		2	Screw, FMT + 2.6 x 6
56	894265-2	2	Pitch contol knob
57		2	Spacer 5 x 1.6
58	895724-1	1	Cueing cover
59	894774-1	1	Cueing cam spindle
60	895190	1	Cueing cam
61	892399-1	1	Cueing lever ass'y
62	895729-1	1	Size select cover
63	895195	2	Rubber washer
64		2	CS stopper, CSTW-2
65	896007-1	1	Size select lever ass'y
66	895184	1	Size select slider
67	895185	1	Slider base
68	893573	1	Select spring
69		1	Screw, FMT + 3 x 6
70	897043	1	Tonearm rest ass'y
71		1	Lock nut, LN3
72	896387-1	4	Rubber foot plate
73		2	Fiber washer, FW 4 x 10 x 1
74	896496	4	Rubber foot plate
75	851134	1	Dust cover ass'y
75-1	851097	1	Dust cover
75-2	895231	2	Hinge plate
75-3	895215	2	Auto Hinge
75-4		4	Screw, FM + 4 x 8
75-5		2	Dust cover cushion
76	895259	2	Lock plate
77		8	Wood screw, WM + 3.1 x 13
78	620039	1	Turntable platter
79	871222-2	1	Rubber mat
80	890876	1	45 rpm adaptor
81	846588-1	1	Bottom cover
82		8	Screw, TPM + 3 x 13
83	897192	1	Rating label
84	895827	1	Serial number label
85		2	OS screw, 3 x 8
86			
87	851586	1	Tonearm ass'y
88		3	Screw, FM + 3 x 16
89	896015	1	Rubber cap
90		2	Wood screw, WM + 3.1 x 16
91		2	Fiber washer, FW 3.2 x 8 x 1
92		1	Spring washer, S. SW-3
93		1	Screw, BT + 3 x 6
94		4	Fiber washer, FW 3.1 x 8 x 1
95	894238	1	UL label (UL)



EXPLODED VIEW
PS-97XV

PARTS LISTS FOR PS-97XV

Item No.	Dwg No.	Q'nty	Description
1	851553	1	Main board ass'y
2	846898-1	1	Sub-chassis ass'y
3		8	Screw, BT + 3 x 8
4		4	E washer, E-3
5	891443	2	Start lever spring
6		2	Washer, BW 4.5 x 10 x 0.3
7	895590	1	Repeat cam
8	895589	1	Start cam
9	895588	1	Reject cam
10	890755	3	Lug
11		3	UL tube
12	896424-1	4	PCB support
13	897342-2	4	Spacer
14	897343	4	Plastic bushing
15		4	Screw, FMT + 3 x 22
16		7	Screw, FMT + 3 x 8
17	631612-3	1	DC motor, DDM-511-QF22
18		13	Screw, TP + 3 x 16
19	871712-1	1	Motor cover
20		8	Screw, BT + 3 x 16
21		8	Fiber washer, FW 3 x 10 x 1
22	870066	1	Actuating arm
23	891092	1	Stopper pin
24		1	4 steel ball
25	896300	1	Gear spindle plate
26		1	Screw, FM + 3 x 6
27	871611-2	1	Power supply source ass'y
27-1	871536	1	Power supply PCB ass'y (USA)
27	871536-1	1	Power supply PCB ass'y (Europe)
27-2	892435-1	1	Power supply cord ass'y (USA)
27	895617	1	Power supply cord ass'y (Europe)
27-3	891340-1	1	Micro switch
27-4	897045	1	Neon lamp
27-5	896862-4	1	Neon lamp PCB ass'y
28		2	Screw, M + 3 x 16
29	895157	1	Insulation plate (Europe)
30		1	Power transformer (USA)
30-1	871717	1	Power transformer (Europe)
31	897207	1	Transformer base
32	895958	1	Transformer cover
33	896943	1	L.E.D. ass'y
34	894408	10	Wire fastener
35	896843	1	Phono output cable ass'y
35-1	890979	1	5P terminal strip
35-2	871474-2	1	Phono output cable
35-3		2	Varnished tube
36	890959	1	Screen plate
37	871830	1	Volume ass'y
37-1	896866	1	Potentiometer base
37-2	703062-3	2	Potentiometer
37-3	871719	1	Switch PCB
37-4	871734	1	Switch board ass'y
38		2	Screw, FM + 3 x 6
39	897238-1	2	Record size select cam
40		1	CS stopper, CSTW 12
41		3	Screw, FM + 3 x 16
42	891458-2	1	Feed arm ass'y
42-1	891482	1	Feed base (3) ass'y
42-2	801553	1	Feed arm spring
42-3		1	Hex head screw, M 3 x 20
42-4	813681	1	Lock spring
42-5	891458-2	1	Feed base (4) ass'y
43	891452-1	1	Friction rubber
44	846897-2	1	Wood base
45	890097-1	1	45 rpm adaptor spindle
46	892373	1	Head shell stand
47	895820	1	Badge, Scott logo
48	892624-2	1	Power cord fixing plate
49	891568	1	SR bushing
50		2	Screw, TPM + 3 x 14
51	896016-1	4	Button ring
52	897222	4	Push button ass'y
53	896865	1	Prism ass'y
53-1	896864	1	Prism
53-2	896864	1	Prism holder
54	895692	1	UL tube
55		2	Screw, FMT + 2.6 x 6
56	894265-2	2	Pitch control knob
57		2	Spacer 5 x 1.6
58	895724-1	1	Cueing cover
59	894774-1	1	Cueing cam spindle
60	895190	1	Cueing cam
61	892399-1	1	Cueing lever ass'y
62	895729-1	1	Size select cover
63	895195	2	Rubber washer
64		2	CS stopper, CSTW-2
65	896007-1	1	Size select lever ass'y
66	895184	1	Size select slider
67	895185	1	Slider base
68	893573	1	Select spring
69		1	Screw, FMT + 3 x 6
70	897043	1	Tonearm rest ass'y
71		1	Lock nut, LN3
72	896387	2	Rubber foot ass'y
73	896387-1	2	Rubber foot ass'y
74	896496	4	Rubber foot plate
75	851134	1	Dust cover ass'y
75-1	851097	1	Dust cover
75-2	895231	2	Hinge plate
75-3	895215	2	Auto hinge
75-4		4	Screw, FM + 4 x 8
75-5		2	Dust cover cushion
76	895259	2	Lock plate
77		8	Wood screw, WM + 3.1 x 13
78	620041	1	Turntable platter
79	871222-2	1	Rubber mat
80	890876	1	45 rpm adaptor
81	846588-1	1	Bottom cover
82		8	Screw, TPM + 3 x 13
83	897197	1	Rating label
84	895827	1	Serial number label
85		2	OS screw, 3 x 8
86			
87	851586	1	Tonearm ass'y
88		3	Screw, FM + 3 x 16
89	896015	1	Rubber cap
90		2	Wood screw, WM + 3.1 x 16
91		2	Fiber washer, FW 3.2 x 8 x 1
92		1	Spring washer, S.SW 3
93		1	Screw, BT + 3 x 6
94		4	Fiber washer, FW 3.1 x 8 x 1
95	894238	1	UL label (UL)

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